

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Characterizing Sensory Hypersensitivities in Autism	\$0	2.1	Massachusetts General Hospital
Simons Foundation	Disruption of Cortical Projection Neurons, Circuits, and Cognition in ASD	\$0	2.1	George Washington University
Simons Foundation	Dysregulation of mTor/Tsc in 22q11DS Autism Model	\$0	2.1	George Washington University
Brain & Behavior Research Foundation	The Use of AAV-mediated CRISPR-Cas9 to Determine The Effect of Non-coding Genetic Variation on a Molecular Phenotype Relevant to Autism	\$0	2.1	Emory University
Health Resources and Services Administration	Does Food Addiction Mediate the Relationship between BMI and ASD?	\$0	2.2	George Washington University
Brain & Behavior Research Foundation	Rapid Phenomic Interrogation of CRISPR-Cas9 Edited Mammalian Brains	\$0	2.1	Massachusetts Institute of Technology
Brain & Behavior Research Foundation	The Study of Homeostatic Downscaling in Psychiatric Disorders	\$0	2.1	University of Illinois at Urbana-Champaign
Department of Defense - Army	Autism-Associated Mutations in L-Type Ca2+ Channels	\$0	2.1	Northwestern University
Department of Defense - Army	Autism-Associated Mutations in L-Type Ca2+ Channels	\$0	2.1	Northwestern University
FRAXA Research Foundation (FRAXA)	MicroRNA Mediated Astroglial GLT1 Dysregulation in Fragile X	\$0	2.1	Tufts University
Department of Defense - Army	Predicting Situational Onset of Aggression in Minimally Verbal Youth with Autism Using Biosensor Data and Machine Learning Algorithms	\$0	2.1	Northeastern University
Simons Foundation	Striatal circuit dysfunction in a novel autism mouse model	\$0	2.1	Northwestern University Feinberg School of Medicine
Simons Foundation	Neurodevelopmental assessment of motor behavior in a mouse model of autism	\$0	2.1	The University of Iowa
National Science Foundation	UNS: GARDE: Research to Quantify the Health and Development of Children with Disabilities Around the Clock	\$0	2.2	Kansas State University
Department of Defense - Army	Predicting Situational Onset of Aggression in Minimally Verbal Youth with Autism Using Biosensor Data and Machine Learning Algorithms	\$0	2.1	Maine Medical Center
Simons Foundation	The role of striatal interneurons in social deficits and repetitive behaviors	\$0	2.CC	Yale University
Brain & Behavior Research Foundation	High-throughput Quantitative Analysis of Enhancer Elements Associated with ASD	\$0	2.1	Yale University
Brain & Behavior Research Foundation	Exploring Tridimensional Chromatin Interactions in ASD-derived Brain Organoids	\$0	2.1	Yale University
Simons Foundation	Learning-related activity in the autistic brain	\$0	2.1	Yale University School of Medicine
FRAXA Research Foundation (FRAXA)	Quantitative Assessment of the Serotonin System in a Mouse Model of Fragile X Syndrome	\$0	2.1	Mercer University

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FRAXA Research Foundation (FRAXA)	Altered Sleep in Fragile X Syndrome: Basis for a Potential Therapeutic Target	\$0	2.2	National Institute of Health - Intramural
National Science Foundation	Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	2.1	Massachusetts Institute of Technology
Autism Speaks	High-throughput screens to discover regulatory mechanisms contributing to autism spectrum disorder	\$0	2.1	Yale University
National Science Foundation	Gesture as a forerunner of linguistic change-insights from autism	\$0	2.3	Georgia State University
National Science Foundation	Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	2.1	TERC Inc
Simons Foundation	The role of PTCHD1 in thalamic reticular nucleus function and ASD	\$0	2.1	Massachusetts Institute of Technology
Brain & Behavior Research Foundation	Neural Bases of Atypical Language Learning in Children with ASD: A Combined fMRI/MEG Study	\$0	2.1	University of Delaware
Brain & Behavior Research Foundation	Neural Correlates of Behavioral Treatment for Toddlers with ASD	\$0	2.1	University of California, Davis Medical Center
Simons Foundation	Expression and characterization of the neuron-specific potassium chloride cotransporter, KCC2	\$0	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Autism Science Foundation	Undergraduate Research Award	\$0	2.1	University of California, San Diego
Simons Foundation	Decoding Affective Prosody and Communication Circuits in Autism	\$0	2.1	Stanford University
Simons Foundation	USP9X: A master gene for neural development and autism	\$0	2.1	University of Queensland
Department of Defense - Army	Regulatory Immune Mechanisms and Gastrointestinal Comorbidity in ASD	\$0	2.2	The Regents of the University of California Davis
Department of Defense - Army	The Relationship Between Brain Functioning, Behavior, and Microbiota in Autism Spectrum Disorder	\$0	2.1	Southern California, University of
Department of Defense - Army	The Relationship Between Brain Functioning, Behavior, and Microbiota in Autism Spectrum Disorder	\$0	2.1	University of California, Los Angeles
Simons Foundation	Comparison of cortical circuit dysfunction in ASD model mice	\$0	2.1	University of California, Berkeley
Simons Foundation	Objective Assessment of Repetitive Behaviors in Autistic Children	\$0	2.Core/Other	The Regents of the University of California, San Diego
Simons Foundation	Exploring calcium signaling defects in a mouse model of 16p11.2 deletion	\$0	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)

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Simons Foundation	Stability of Sensory Coding in Fragile-X Mice - Project 1	\$0	2.1	The Regents of the University of California, Los Angeles
Simons Foundation	Brain imaging of treatment response	\$0	2.1	The Hospital for Sick Children
Simons Foundation	Parameterizing Neural Habituation in ASD with Sensory Overresponsivity	\$0	2.1	University of California, Los Angeles
FRAXA Research Foundation (FRAXA)	Metformin and Aberrant Insulin Signaling in a Fragile X Mouse Model	\$0	2.1	McGill University
Health Resources and Services Administration	Maternal Immune Status and Autism Severity	\$0	2.1	University of California MIND Institute
FRAXA Research Foundation (FRAXA)	Research Points to Drugs which Inhibit PDE to Treat Fragile X	\$0	2.1	INSERM
Brain & Behavior Research Foundation	Developmental Role of Prefrontal Cortex-raphe Circuits in Stress and Mood Disorders	\$0	2.1	INSERM
FRAXA Research Foundation (FRAXA)	Non-Invasive Imaging as a Biomarker for Future Fragile X Clinical Trials	\$0	2.Core/Other	Neurocentre Magendie
Simons Foundation	Generating a new Del(Sult1a1-Spn) 16p11.2 deletion model in Long-Evans Rat	\$0	2.1	Institut de Genetique et de Biologie Moleculaire et Cellulaire (CERBM)
Simons Foundation	Sleep EEG abnormalities in toddlers with regressive or classical autism	\$0	2.2	Ben-Gurion University of the Negev
Simons Foundation	Minimally-Verbal ASD cognition studied via involuntary eye movements	\$0	2.1	Bar-Ilan University
Simons Foundation	New mathematical approaches to dissect neuronal circuits dynamics from EEG in ASD	\$0	2.1	Fondazione Istituto Italiano di Tecnologia (Italian Institute of Technology)
Simons Foundation	Characterizing topographically variable dysplasias in individuals with ASDs	\$0	2.1	San Diego State University Research Foundation
Simons Foundation	Intersection of Autism Genetics and Homeostatic Plasticity	\$0	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Myelin integrity and plasticity in Autism Spectrum Disorders	\$0	2.1	Stanford University
Brain & Behavior Research Foundation	Interrogating Synaptic Transmission in Human Neurons	\$0	2.1	Stanford University
Simons Foundation	Identifying autism-associated signaling pathways regulated by CHD8 in vivo	\$0	2.1	King's College London
Brain & Behavior Research Foundation	Investigating the Role of Homeostatic Plasticity in Autism Spectrum Disorder	\$0	2.1	King's College London
Brain & Behavior Research Foundation	Shifting Brain Excitation/Inhibition Balance in Autism Spectrum Disorder	\$0	2.1	King's College London
FRAXA Research Foundation (FRAXA)	Auditory Dysfunction in Fragile X Syndrome, Role for the Sound Localization Pathway	\$0	2.1	University of Colorado at Denver
National Science Foundation	Doctoral Dissertation Research: The Impact of Stress and Instability on the Resilience and Well-Being of Children with Autism	\$0	2.Core/Other	University of Colorado at Boulder

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Autism Speaks	Investigating the cerebellar circuit target for modulating ASD behaviors	\$0	2.1	University of Texas Southwestern Medical Center
Autism Science Foundation	Pupil Response in Individuals with ASD and Known Copy Number Variations	\$0	2.1	Geisinger Clinic
Brain & Behavior Research Foundation	The Role of UBE3B in the Pathogenesis of Autism Spectrum Disorder	\$0	2.1	University of Texas Southwestern Medical Center
Brain & Behavior Research Foundation	SRPX2 Regulation of Synapse Formation: Implications for Schizophrenia and Autism Spectrum Disorder	\$0	2.1	University of Texas Health Science Center at San Antonio
Simons Foundation	Pathogenic Gating Pore Current in Autism	\$0	2.1	University of Washington
Simons Foundation	Cell type molecular neuropathology of the cerebellum in autism	\$0	2.1	Seattle Children's Hospital
Brain & Behavior Research Foundation	Evoked Neurotransmitter and Neurochemical Amygdala Responses and Autonomic Arousal to Social Threat and Safety Signals in Typically Developing and Autistic Children and Adolescents	\$0	2.1	University of Wisconsin-Madison
FRAXA Research Foundation (FRAXA)	Preclinical Testing of Sleep-Wake Patterns as an Outcome Measure for Fragile X	\$0	2.2	University of Wisconsin at Madison
Health Resources and Services Administration	RCBA - Seizure; secondary analyses	\$0	2.2	Cincinnati Children's Hospital Medical Center
National Science Foundation	Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases	\$0	2.1	University of Washington
Brain & Behavior Research Foundation	The Role of Sensory Over-responsivity in the Development of Anxiety in Children With and Without Autism	\$0	2.2	Duke University Medical Center
Simons Foundation	Visualizing neural circuits of social sensory processing	\$0	2.1	Univ of North Carolina, Chapel Hill
Simons Foundation	Elucidation of the Bidirectional Role of Microglia in Fragile X Syndrome	\$0	2.1	Univ of Texas Health Science Center at San Antonio
Simons Foundation	Spatiotemporal dissection of UBE3A with engineered human cerebral organoids	\$0	2.1	North Carolina State University
Brain & Behavior Research Foundation	The Role of Microglia in Regulation of Projection-specific Prefrontal Cortical Neuron Synapses	\$0	2.1	Vanderbilt University Medical Center
National Science Foundation	EAPSI: Longitudinal Modeling of Neurocognitive and Psychosocial Trajectories in Children with Autism Spectrum Disorder	\$0	2.3	Vanderbilt University
Brain & Behavior Research Foundation	From Synaptic Dysfunction to Abnormal Brain Connectivity in Autism	\$0	2.1	University of Utah
Autism Science Foundation	Undergraduate Research Award	\$0	2.1	Duke University

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Geisinger Autism & Developmental Medicine Institute (GADMI)	Multisensory Integration (MSI) in Klinefelter and Turner Syndromes	\$0	2.1	Geisinger-Bucknell Research Initiative
Autism Science Foundation	Understanding the pain response in people with autism	\$0	2.Core/Other	Vanderbilt University
Brain & Behavior Research Foundation	Modulation of Excitatory Synaptic Transmission in Mental Illnesses	\$0	2.1	Vanderbilt University
National Science Foundation	Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$0	2.1	Landmark College
Department of Defense - Army	Forward Genetic Screen to Identify Novel Therapeutic Entry Points of an Autism Spectrum Disorder	\$0	2.1	Baylor College of Medicine
Geisinger Autism & Developmental Medicine Institute (GADMI)	Visual Signals Using Webcam	\$0	2.1	Geisinger-Bucknell Research Initiative
Department of Defense - Army	Brain Network Activation Patterns in Autism Due to Genomic Copy Number Variation	\$0	2.1	Baylor College of Medicine
Brain & Behavior Research Foundation	Neurologin 2 in Cortical Excitation-Inhibition Balance	\$0	2.1	Baylor College of Medicine
Brain & Behavior Research Foundation	Dissecting the Human Magnocellular Visual Pathway in Perceptual Disorders	\$0	2.2	New York University
Brain & Behavior Research Foundation	Cellular Mechanisms Controlling White Matter Connectivity: Making Sense of a Genetic Risk Factor for Autism and Schizophrenia	\$0	2.1	Columbia University
FRAXA Research Foundation (FRAXA)	Correcting Fragile X Syndrome Deficits by Targeting Neonatal PKCepsilon Signaling in the Brain	\$0	2.1	College of Staten Island
FRAXA Research Foundation (FRAXA)	Autophagy is a Novel Therapeutic Target of Impaired Cognition in Fragile X Syndrome	\$0	2.1	Albert Einstein College of Medicine
Autism Science Foundation	Undergraduate Research Award	\$0	2.1	University of Minnesota
Autism Science Foundation	Understanding the female protective effect in infants with and without ASD	\$0	2.CC	University of Minnesota
Health Resources and Services Administration	RCBA - Exercise; secondary analyses	\$0	2.2	Lurie Center
Simons Foundation	Top-down dynamics in autism	\$0	2.1	Rockefeller University
National Science Foundation	Social cognition for competition versus cooperation	\$0	2.Core/Other	Boston College
Simons Foundation	The role of glial CHD2 in synaptic homeostatic plasticity and autism	\$0	2.1	Georgetown University
The NJ Governor's Council for Medical Research and Treatment of Autism (NJMRTA)	Immune Regulation of Subventricular Zone Neural Stem	\$0	2.1	Rutgers University, Biomedical and Health Sciences (RBHS)

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The NJ Governor's Council for Medical Research and Treatment of Autism (NJMRTA)	Developmental Dysregulation of Inhibitory Neuron Migration as an Experimental Model to Analyze Mechanisms of Pediatric Autism-Epilepsy Syndromes	\$0	2.1	Rutgers, The State University
The NJ Governor's Council for Medical Research and Treatment of Autism (NJMRTA)	Characterization of the female phenotype of ASD using Big Data	\$0	2.CC	Rutgers, The State University
Brain & Behavior Research Foundation	Striatal Interneuron Deficiency Produces Autistic-like Behavior: An Insight into Neural Circuits and Treatment	\$0	2.1	Research Foundation for the State University of New York (SUNY) on behalf of University at Buffalo
Autism Science Foundation	Undergraduate Research Award	\$0	2.1	Cornell University
Simons Foundation	Comparison of iPSC reprogramming methods from 16p11.2 microdeletion patient derived tissue	\$0	2.1	President & Fellows of Harvard College
The NJ Governor's Council for Medical Research and Treatment of Autism (NJMRTA)	A Role For Semaphorin Functions In Cortico-Basal Ganglia Development, Repetitive Behavior, And Autism Spectrum Disorder	\$0	2.2	Rutgers University, Biomedical and Health Sciences (RBHS)
Autism Science Foundation	Using genes and iPSC cells from the same patient to determine the potential validity of a blood based biomarker	\$0	2.1	Mount Sinai School of Medicine
Autism Science Foundation	Using big data to characterize the female brain in autism	\$0	2.CC	NYU School of Medicine
Brain & Behavior Research Foundation	Neural Circuit Basis for Cortical Oscillations as a Biomarker for Neurological Disorders	\$0	2.1	Boston University
Brain & Behavior Research Foundation	Microglia-dependent Regulation of Inhibitory Brain Circuits in Health and Disease	\$0	2.1	University of Massachusetts Medical School University of Massachusetts, Amherst
Simons Foundation	Translational biomarkers of genetically defined autism spectrum disorders - Core	\$0	2.1	Massachusetts Institute of Technology
Simons Foundation	Characterization of predictive abilities in individuals with ASD using web-based interception games	\$0	2.1	Northeastern University
Simons Foundation	A novel method for revealing the shared molecular pathways of autism genes	\$0	2.1	Washington University in St. Louis
Autism Speaks	Molecular control of developing corticostriatal circuits and behaviors in an autism model	\$0	2.1	Icahn School of Medicine at Mount Sinai
Department of Defense - Army	IMAGING DEPRESSION IN ADULTS WITH ASD	\$0	2.2	State University of New York, Stony Brook
Health Resources and Services Administration	Diagnosis of Psychological Distress and Anxiety among Children with Intellectual Disability and Autism by Clinicians in Developmental-Behavioral Pediatrics, Child Psychiatry and Psychology: A Qualitative study.	\$0	2.2	Albert Einstein College of Medicine
National Institutes of Health	Maximizing Biospecimen Collection from Children with Mental Health Conditions	\$1	2.1	Kaiser Foundation Research Institute

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Autism Science Foundation	Undergraduate Research Award	\$3,000	2.1	University of Wisconsin
Autism Science Foundation	Undergraduate Research Award	\$3,000	2.CC	University of Washington
Autism Science Foundation	Undergraduate Research Award	\$3,000	2.1	Mount Sinai School of Medicine
Brain & Behavior Research Foundation	The Role of Medial Amygdala in Regulating Social Behaviors	\$13,427	2.1	University of California, Los Angeles
Brain & Behavior Research Foundation	Investigating the Function of Autism Candidate Gene LIN-2/CASK in Cholinergic Synapse	\$17,425	2.1	University of Queensland
Brain & Behavior Research Foundation	Interpersonal Neural Coordination During Social Interaction in Children with Autism Spectrum Disorders	\$17,485	2.1	University of Pittsburgh
Brain & Behavior Research Foundation	Dysfunction of Cortical Systems for Language and Working Memory in Autism Spectrum Disorder	\$17,500	2.1	Boston University
Brain & Behavior Research Foundation	Advancing a Biomarker of Disrupted GABAergic Neurotransmission in Autism	\$17,500	2.1	Massachusetts Institute of Technology
Brain & Behavior Research Foundation	Dopaminergic Dysregulation in Mouse Models of Autism Spectrum Disorder	\$17,500	2.1	University of California, Berkeley
Brain & Behavior Research Foundation	Developing Neural Markers to Evaluate Social Skills Training in ASD	\$17,500	2.1	California Institute of Technology
Brain & Behavior Research Foundation	Dysregulation of Integrated Stress Response (ISR) Pathway In Autism	\$17,500	2.1	McGill University
Brain & Behavior Research Foundation	Balancing Neuronal Excitability: Synaptic Shank Proteins Control Metabotropic Glutamate Receptor Trafficking and Activity	\$17,500	2.1	Utrecht University
Brain & Behavior Research Foundation	The Impact of Sleep Disturbance During Development on Autism-like Social Behavior in Voles	\$17,500	2.2	Portland VA Research Foundation; Oregon Health and Science University
Brain & Behavior Research Foundation	In vivo Imaging of Prefrontal Cortical Activity During Social Interactions in Normal and Autism Mice	\$17,500	2.1	Duke University
Brain & Behavior Research Foundation	Synaptic Homeostasis of the Homer1 Network in a Shank3 Model of Autism	\$17,500	2.1	Seattle Children's Research Institute
Brain & Behavior Research Foundation	Above the Noise: RNA-Seq Analysis of MeCP2 and Non-MeCP2 Rett Syndrome Autopsy Samples	\$17,500	2.1	Vanderbilt University
Brain & Behavior Research Foundation	Electrophysiological Correlates of Social-emotional Learning in ASD	\$17,500	2.1	State University of New York, Stony Brook
Brain & Behavior Research Foundation	Understanding Disruption of Neuronal DNA Methylation in Disorders of Cognition	\$17,500	2.1	Washington University in St. Louis
Brain & Behavior Research Foundation	Nominally Non-responsive Cells in a Sensory-prefrontal Cortical Loop Enable the Flexible Control of Adaptive Behavior	\$17,500	2.1	New York University

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National Institutes of Health	Characterizing the CHD8 Complex to Determine its Role in Autism Spectrum Disorder	\$18,399	2.1	Stanford University
Tuberous Sclerosis Alliance (TSA)	Neural Circuits Underlying Autism-Related Behaviors in Tuberous Sclerosis	\$18,750	2.1	UT Southwestern
Autism Research Institute	Gender Dimorphism: Microbiome Analysis in Autistic Boys and Girls	\$20,000	2.CC	Massachusetts General Hospital
Autism Research Institute	Is there evidence for pathological features of Alzheimer's Disease in the aged autistic brain?	\$20,000	2.1	Boston University School of Medicine
Autism Research Institute	Determination of exosomal biomarker candidates of ASD	\$20,000	2.1	University of California, Davis
Autism Speaks	Understanding pathways to auditory processing disorders in infants at high risk for ASD	\$20,000	2.1	University of North Carolina
Autism Research Institute	To determine the minicolumnar morphometry of autistic, 15q dup and various Shank3 mutant mouse models as compared to those in control tissue.	\$20,000	2.1	University of South Carolina, Greenville
Autism Speaks	The impact of MECP2 mutation in gabaergic interneurons on plasticity in the auditory cortex	\$20,000	2.1	Cold Spring Harbor Laboratory
National Institutes of Health	Endocannabinoids in Social and Repetitive Behavioral Domains	\$23,289	2.1	Vanderbilt University
Autism Research Institute	Dysbiosis at birth as a model for increased risk of autism	\$25,000	2.2	MIND Institute
Autism Science Foundation	Explaining how the ASD brain works during social interaction	\$25,000	2.1	State University of New York, Stony Brook
Tuberous Sclerosis Alliance (TSA)	Administrative Core Support for Developmental Synaptopathies Associated with TSC, PTEN and SHANK3 Mutations	\$25,568	2.3	Boston Children's Hospital
National Institutes of Health	Novel Non-Cell Autonomous Mechanisms of Callosal Dysgenesis in CHARGE Syndrome	\$28,345	2.Core/Other	University of Michigan at Ann Arbor
National Institutes of Health	Dopamine Transporter Dysfunction in Autism Spectrum Disorder	\$29,204	2.1	Vanderbilt University
National Institutes of Health	Neural Mechanisms of Live Joint Attention in Autism Spectrum Disorders: An fNIRS Hyperscanning Investigation	\$29,244	2.1	Yale University
National Institutes of Health	Altered Dopamine Transporter Function in Autism	\$29,400	2.1	University of Alabama at Birmingham
National Institutes of Health	Altered Dopamine Transporter Function in Autism	\$29,400	2.1	University of Alabama At Birmingham
Autism Research Institute	Proteomic Analysis of Autistic Brain Part 2: A Validation Study	\$30,200	2.1	Cleveland Clinic



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National Institutes of Health	Understanding Transcriptional Mechanisms Critical for Neural Development	\$30,442	2.1	Washington University
National Institutes of Health	Localizing Abnormalities in Goal-Directed Behavior to Striatal Circuits in the Neurexin1 Mouse Model	\$31,589	2.1	University of Pennsylvania
Autism Speaks	Regulation of Cortical Circuit Assembly by Syngap1	\$32,000	2.1	The Scripps Research Institute, FL
Autism Speaks	Identifying Astrocyte-Secreted Protein Factors Linked to Altered Neuronal Development in ASD	\$32,000	2.1	Salk Institute for Biological Studies
Autism Speaks	Impact of Familial ASD Risk on Functional Brain Connectivity in Infants	\$32,000	2.1	University of California, Los Angeles
Autism Speaks	Physiological response patterns in children with ASD to predict internalizing symptoms	\$32,000	2.2	Vanderbilt University
National Institutes of Health	A Conserved Transcriptional Cascade Involved in Brain Overgrowth, Social Behavior and Autism	\$33,866	2.1	Case Western Reserve University
Brain & Behavior Research Foundation	Inhibitory Synaptic Dysfunction in Autism Spectrum Disorder	\$35,000	2.1	Yale University
Autism Science Foundation	Determining the nature and function of the SCN2A mutation in ASD	\$35,000	2.1	University of California, San Francisco
Autism Science Foundation	Identifying the converging genetic pathways across different forms of ASD	\$35,000	2.1	University of California, Los Angeles
Brain & Behavior Research Foundation	Cerebellum, Simple System with Complex Functions in Health and Disease: New Roles of the Cerebellum in Pathophysiology of Autism	\$35,000	2.1	Karolinska Institute
Brain & Behavior Research Foundation	Identifying Convergent and Divergent Autism-Associated Molecular Pathways Using in Vivo Pooled Screening and Single Cell RNA Profiling	\$35,000	2.1	ETH Zurich
Brain & Behavior Research Foundation	Using Targeted Genome Editing to Generate Novel Preclinical Rodent Models of Autism	\$35,000	2.1	University of Edinburgh
Brain & Behavior Research Foundation	Steroid Metabolism in a High-risk Autism Spectrum Disorder Prospective Pregnancy Cohort	\$35,000	2.CC	A.J. Drexel Autism Institute
Brain & Behavior Research Foundation	Investigation of Human Neuronal Precursor Proliferation in Autism	\$35,000	2.1	Case Western Reserve University
Brain & Behavior Research Foundation	Altered Synaptic Autophagy as a Mouse Model for Autism	\$35,000	2.1	University of Utah
Autism Science Foundation	Understanding the genetic influence of brain circuitry in ASD	\$35,000	2.1	University of Texas Southwestern Medical Center
Brain & Behavior Research Foundation	Mechanisms of Thalamic Receptive Field Disruption in Autism Spectrum Disorder	\$35,000	2.1	Massachusetts Institute of Technology

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Brain & Behavior Research Foundation	Mechanisms of UBE3A Dysfunction in Brain Development	\$35,000	2.1	Washington University School of Medicine
Brain & Behavior Research Foundation	Role of Cortical Progenitors in the Specification of Cortical Projection Neuron Subtypes and their Diversity	\$35,000	2.1	Cold Spring Harbor Laboratory
National Institutes of Health	An fMRI Investigation of Propagated intrinsic Activity in Early Development and Autism	\$35,962	2.1	Washington University
National Institutes of Health	Defining the Molecular Basis of Autism Caused by Inherited Null Mutations in BAF53B	\$36,305	2.1	Stanford University
National Institutes of Health	ASD-Relevant Gene-Immune Interactions in the Developing Brain	\$36,945	2.1	Stanford University
National Institutes of Health	Investigating the Cerebellar Circuit Substrate for Modulating ASD Core Diagnostic Behaviors	\$38,124	2.1	Ut Southwestern Medical Center
National Institutes of Health	Endoplasmic Reticulum Stress as a Novel Mechanism of Synaptic Dysfunction in Autism-Associated NLGN3 R451C Human Neurons	\$38,788	2.1	Rbhs-Robert Wood Johnson Medical School
National Institutes of Health	Connectivity of the Posterior Cerebellum	\$41,124	2.1	Princeton University
National Institutes of Health	Control of Neuronal Transcriptional Elongation by Brd4 and its Contribution to Autism	\$41,724	2.1	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Underlying Neuronal Circuitry of Attention in Both Sexes of a Rat Model of Fragile X Syndrome	\$42,924	2.CC	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Development of Corticostriatal Networks in Health and Disease	\$44,364	2.1	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Massively Parallel Functional Analyses of Human PTEN Variants	\$44,524	2.1	Oregon Health & Science University
National Institutes of Health	Altered Ionotropic Receptor Maturation in the Impaired Auditory Critical Periods of Fmr1 Knockout Mice	\$44,524	2.1	University of Pennsylvania
National Institutes of Health	Characterizing Maladaptive Homeostatic Plasticity in an Animal Model of ASD	\$44,524	2.1	New York University School of Medicine
National Institutes of Health	The Instruction of Sensory Inputs in Inhibitory Circuit Maturation in the Somatosensory Cortex	\$45,891	2.1	Weill Medical Coll of Cornell Univ
National Institutes of Health	Functional Architecture of a Face Processing Area in the Common Marmoset	\$49,524	2.1	Weill Medical Coll of Cornell Univ
Brain & Behavior Research Foundation	Molecular Dimorphism in the Locus Coeruleus May Mediate Sex-specific Differences in Psychiatric Disease Risk	\$50,000	2.CC	Washington University in St. Louis
National Institutes of Health	Language Processing and Word Learning in Preschoolers with Autism Spectrum Disorder	\$50,188	2.1	Boston University (Charles River Campus)

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National Institutes of Health	Exploring Novel Epilepsy Pathways	\$50,430	2.2	University of Iowa
Tuberous Sclerosis Alliance (TSA)	Impact of Cerebellar – Medial Prefrontal Cortical Circuits	\$56,250	2.1	UT Southwestern
National Institutes of Health	Sex-Biased Mitochondrial Alterations Underlying Male Susceptibility to Neurodevelopmental Disorders	\$58,654	2.CC	Massachusetts General Hospital
National Institutes of Health	Characterizing Neural Adaptation in Autism Spectrum Disorder	\$58,654	2.1	Massachusetts Institute of Technology
National Institutes of Health	Optogenetic Monitoring and Modulation of Nucleus Accumbens Microcircuitry in Cognition	\$59,038	2.1	University of Minnesota
Simons Foundation	Molecular characterization of temperature sensitive circuits in the mouse	\$60,000	2.1	Harvard University
National Institutes of Health	Developmental Synaptopathies Associated with TSC, PTEN and SHANK3 Mutations	\$62,698	2.3	Boston Children's Hospital
National Institutes of Health	Structural and Behavioral Impact of ASD-Associated Variants of NRXN1 in Drosophila Melanogaster	\$63,154	2.2	Baylor College of Medicine
National Institutes of Health	Toward 3D Human Brain-Like Tissues for Targeting Dysregulated Synapse and Proteostasis Mechanisms in Autism Spectrum Disorder	\$63,282	2.1	Tufts University Medford
Simons Foundation	Neurobiological basis of connectivity deficits in autism	\$65,568	2.1	Fondazione Istituto Italiano di Tecnologia (Italian Institute of Technology)
Simons Foundation	Linking circuit dynamics and behavior in a rat model of autism	\$66,025	2.1	University of California, San Francisco
Simons Foundation	Behavioral effects of fever and other illness on young children with autism –Core	\$67,850	2.Core/Other	Weill Cornell Medical College
National Institutes of Health	Developmental Synaptopathies Associated with TSC, PTEN and Shank3 Mutations	\$69,048	2.3	Boston Children's Hospital
Simons Foundation	Understanding the neurobiology of attachment deficits in ASD	\$70,000	2.1	University of California, San Francisco
Simons Foundation	The role of silent synapses in the etiology of autism	\$70,000	2.1	University of Pittsburgh
Simons Foundation	Oxytocin receptor signaling	\$70,000	2.1	New York University School of Medicine
Simons Foundation	Eliminating MRI motion with personalized head restraints	\$70,000	2.Core/Other	Joan & Sanford I. Weill Medical College of Cornell University
Autism Science Foundation	Phase 1a of the Autism Sisters Project	\$73,065	2.CC	Broad Institute, Inc.
Simons Foundation	Vision in Genetically Characterized Autism Populations	\$73,188	2.1	Trustees of Dartmouth College
Simons Foundation	Foxp1 orchestration of neuronal function in the striatum	\$74,425	2.1	University of Texas Southwestern Medical Center

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Functional and behavioral analysis of zebrafish ASD models	\$74,982	2.1	University of Queensland
Simons Foundation	Exploring Sex Differences in ASD via the NRXN1 KO Rat	\$75,000	2.CC	University of Maryland, College Park
Simons Foundation	Do VIP interneurons drive abnormal prefrontal circuit function in autism?	\$75,000	2.1	University of California, San Francisco
Simons Foundation	Uncovering Trio's role in Autism Spectrum Disorder	\$75,000	2.1	University of Southern California
Simons Foundation	Novel technology for behavioral phenotyping of autism mouse models	\$75,000	2.1	California Institute of Technology
Simons Foundation	Assessing thalamocortical circuit function in TSC1 and NHE6 mouse models	\$75,000	2.1	Brown University
Simons Foundation	Does Astrocyte Dysfunction Contribute to Synaptic Pathologies in Autism?	\$75,000	2.1	Duke University Medical Center
Simons Foundation	ASXL3 in Neural Fate Commitment and Autism Spectrum Disorder	\$75,000	2.1	The Regents of the University of Michigan
Simons Foundation	Development of corticothalamic circuits of prefrontal cortex in mouse models of autism	\$75,000	2.1	Boston Children's Hospital
Simons Foundation	Probing perception and sensorimotor coupling in mouse models of autism	\$75,000	2.1	Harvard University
Simons Foundation	Autophagy pathway alterations in lymphocytes: Potential biomarkers for autism?	\$75,000	2.1	Columbia University
National Institutes of Health	Gene-Brain-Environment Interactions as Determinants of Typical and Atypical Developmental Trajectories	\$75,492	2.1	University of California Los Angeles
National Institutes of Health	Developmental Relationships Between Joint Engagement and Vocabulary in Children with Autism Spectrum Disorder	\$78,250	2.1	Boston College
Simons Foundation	Sensory processing in ASD - a multi-level approach	\$79,600	2.1	The University of Western Ontario
Simons Foundation	Conserved neural mechanisms for social motivation in mice and humans	\$79,868	2.1	Massachusetts Institute of Technology
Simons Foundation	Investigating the mechanism of FMRP dysregulation with loss of TSC2	\$79,879	2.1	Children's Hospital Boston
Simons Foundation	Impaired sensory perception and aberrant cortical circuit activity in autism model mice	\$80,000	2.1	Georgia Tech Research Corporation
Simons Foundation	The neuroscience and genetic basis of twice exceptionality: a pilot study	\$80,000	2.1	The University of Iowa
Simons Foundation	Biochemical Analysis of ASD Mutations in SYNGAP1	\$80,000	2.1	The Regents of the University of California, San Francisco (Contracts and Grants)

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Leveraging a high-throughput CRISPR screen to uncover convergent phenotypes across autism genes	\$80,000	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Analysis of UBE3A- and NHE6-mutant cells to determine social communication gene networks	\$80,000	2.1	Brown University
Simons Foundation	Insula-Central Amygdala Circuits in Social and Sensory Function	\$80,000	2.1	Vanderbilt University Medical Center (VUMC)
Simons Foundation	Synaptic refinement and glial phagocytosis in a mammalian model of Fragile X Syndrome	\$80,000	2.1	The Trustees of Columbia University in the City of New York
Simons Foundation	Developmental origins of the female protective effect in autism	\$80,000	2.CC	Cold Spring Harbor Laboratory
Simons Foundation	Establishment of Parallel Cortico-Basal Ganglia Circuits by ASD-Linked Pcdh	\$81,485	2.1	Children's Hospital Boston
Simons Foundation	Neural circuit development in the Fragile X zebrafish	\$82,248	2.1	The University of Queensland
Simons Foundation	Subcortical multisensory integration in autism spectrum disorder	\$82,500	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Cell Type Specificity of ASD Risk Factors in Developing Human Brain	\$82,500	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Integrative characterization of microglial and astrocyte activation in ASD	\$82,500	2.1	The Regents of the University of California, Los Angeles
Simons Foundation	Activity-regulated transcription and ASD genes in synapse pruning	\$82,500	2.1	UT Southwestern Medical Center
Simons Foundation	Glial control of neuron shape and function	\$82,500	2.1	Fred Hutchinson Cancer Research Center
Simons Foundation	Neural mechanisms underlying sleep disturbances in autism spectrum disorder	\$82,500	2.2	The Trustees of the University of Pennsylvania
Simons Foundation	Mechanisms of cortical plasticity in autism spectrum disorder	\$82,500	2.1	The Regents of the University of Michigan
Simons Foundation	Defective lineage-dependent precise neocortical circuit assembly in ASD	\$82,500	2.1	Joan & Sanford I. Weill Medical College of Cornell University
Simons Foundation	Stability of sensory coding in Fragile-X mice - Core	\$86,419	2.1	University of Bristol
Simons Foundation	Neurobiology of Rai1, a critical gene for syndromic ASDs	\$87,500	2.1	Stanford University
National Institutes of Health	Understanding Somatosensory Deficits in Autism Spectrum Disorders	\$88,884	2.1	Harvard Medical School
Simons Foundation	The Jackson Laboratory	\$89,400	2.1	The Jackson Laboratory
Simons Foundation	Behavioral effects of fever and other illness on young children with autism - Project 1	\$90,000	2.Core/Other	University of California, San Francisco
Simons Foundation	Exploring RAT model for 16p11.2 syndrome	\$91,553	2.1	Institut de Genetique et de Biologie Moleculaire et Cellulaire (CERBM)

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Neurophysiological impact of abnormal infant sleep in 16p11.2 deletion mice	\$92,669	2.2	The University of Iowa
National Institutes of Health	Mechanisms of Visual Encoding and Plasticity in Anterior Cingulate Cortex	\$94,869	2.1	Univ of North Carolina Chapel Hill
National Institutes of Health	Age-Dependent Dysfunction of GABAergic Neurotransmission Due to Autism-Associated mTOR Pathway Activation	\$97,305	2.CC	University of Virginia
National Institutes of Health	Environmental Influence on Infant Microbiome Development and ASD Symptoms	\$99,712	2.Core/Other	University of California at Davis
Simons Foundation	Probing the development and reversibility of autism-related phenotypes in SETD5 conditional knockout mice	\$99,789	2.1	Institute of Science and Technology Austria
Simons Foundation	Microglia in models of normal brain development, prenatal immune stress and genetic risk for autism	\$100,000	2.1	Harvard Medical School
Simons Foundation	Molecular consequences of strong effect ASD mutations including 16p11.2	\$100,000	2.1	Massachusetts General Hospital
Autism Science Foundation	Phase 1a of the Autism Sisters Project	\$101,871	2.CC	UCSF
National Institutes of Health	The Role of Kit Signaling in Cerebellar Development	\$103,005	2.1	Dartmouth College
National Institutes of Health	Gender Differences in Quantitative Measures of Autonomic Function and Clinical Features of the Autism Phenotype	\$105,440	2.CC	Geisinger Clinic
National Institutes of Health	Mapping Multi-Omics Networks in Microglia Across Autism Models	\$105,790	2.1	University of California at Davis
Simons Foundation	Identification of shared transcriptional profiles with three high-confidence autism mouse models	\$110,000	2.1	Univ of North Carolina, Chapel Hill
National Institutes of Health	Administrative Core	\$110,245	2.Core/Other	Yale University
Autism Science Foundation	Phase 1a of the Autism Sisters Project	\$111,461	2.CC	UCSF
Simons Foundation	Role of a novel PRC1 complex in neurodevelopment and ASD neurobiology	\$112,500	2.1	New York University School of Medicine
National Institutes of Health	Role of Autism-Linked Genes in Developmental Refinement of the Corpus Callosum	\$113,731	2.1	Children's Research Institute, Children's National Medical Center
Simons Foundation	Tracing abnormal developmental trajectories in cortical neurons	\$114,525	2.1	University of Geneva
National Institutes of Health	Neural Basis of Social Cognition Deficits in Youth with Autism and Schizophrenia	\$118,761	2.1	University of California Los Angeles
Simons Foundation	Uncovering the impact of 16p11.2del on neurons mediating motivated behavior	\$124,936	2.CC	University of Pennsylvania

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Cellular models for autism de novo mutations using human stem cells	\$125,000	2.Core/Other	Broad Institute, Inc.
Simons Foundation	Disrupted Homeostatic Synaptic Plasticity in Autism Spectrum Disorders.	\$125,000	2.1	Brandeis University
Simons Foundation	Delineating the role of Ras/MAPK signaling in 16p11.2 phenotypes	\$125,000	2.1	University of California, San Francisco
Simons Foundation	Translational dysregulation of the RhoA pathway in autism	\$125,000	2.1	University of California, San Diego
Simons Foundation	Mechanisms that Connect Autism with Homeostatic Synaptic Plasticity	\$125,000	2.1	University of California, San Francisco
National Institutes of Health	Mechanisms of Synapse Remodeling in TSC	\$126,066	2.2	Boston Children's Hospital
Simons Foundation	Structural Biological Studies of the Soluble and Membrane Regions of KCC2	\$126,163	2.1	New York Structural Biology Center
National Institutes of Health	Identification of Neural Mechanisms Linking Autism-Risk Gene Disruptions with Impaired Social Behavior	\$128,601	2.1	University of California Los Angeles
National Institutes of Health	2/3 Chromatin Regulation During Brain Development and in ASD	\$129,927	2.1	Mayo Clinic Rochester
National Institutes of Health	Developing Measures for Community-Based Research on Trauma and Related Conditions in ASD	\$133,492	2.2	Drexel University
Simons Foundation	Restoring GABA inhibition in a Rett syndrome mouse model by tuning a kinase-regulated Cl <sup>-</sup> rheostat	\$133,678	2.1	Yale University
National Institutes of Health	Brain Connectivity and the Role of Myelin in Autism Spectrum Disorders	\$134,757	2.1	University of Wisconsin-Madison
National Institutes of Health	Structure and Function of Neonatal Social Communication in Genetic Mouse Models of Autism	\$135,402	2.1	Albert Einstein College of Medicine
National Institutes of Health	Neurophysiological and Behavioral Correlates of Sensory and Communication Dysfunction in Children with Autism Spectrum Disorder	\$135,588	2.1	Colorado State University
Simons Foundation	Canonical Computations in Autism	\$137,070	2.1	Baylor College of Medicine
Simons Foundation	Gene Regulatory Control of Prefrontal Cortex Development and Evolution	\$137,500	2.1	Yale University
Simons Foundation	Defining the Translational Landscape in Mouse Models of Autism - Project 1	\$137,500	2.1	University of Texas Southwestern Medical Center
Simons Foundation	Defining the Translational Landscape in Mouse Models of Autism - Core	\$137,500	2.1	University of Massachusetts Medical School
National Institutes of Health	Imaging Brain Function in Children with Autism Spectrum Disorders with Diffuse Optical Tomography	\$142,015	2.1	Washington University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Regulation of striatal neuronal development by mTOR/macroautophagy	\$149,307	2.1	Columbia University Medical Center
Simons Foundation	Neural correlates of sensory hypersensitivity in autism spectrum disorder	\$150,000	2.1	The Salk Institute for Biological Studies
Simons Foundation	Investigating cell type-specific molecular pathology in autistic brain	\$150,000	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Cellular and circuit effects of SCN2A haploinsufficiency	\$150,000	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Molecular mechanisms of sensory transduction in the gut	\$150,000	2.2	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	Elucidating the signaling pathways involved in autism spectrum disorder	\$150,000	2.1	The Regents of the University of California (Davis)
Simons Foundation	Mechanistic insight into autism from a sex-specific induction model	\$150,000	2.CC	The Rector and Visitors of the University of Virginia
Simons Foundation	Sleep-dependent synapse remodeling during development and in Rett syndrome	\$150,000	2.2	University of North Carolina at Chapel Hill (Chapel Hill, NC)
Simons Foundation	Cerebello-Cortical circuits in Autism-related behavior	\$150,000	2.1	University of Texas Southwestern Medical Center
Simons Foundation	Associative circuitry in Bcl11a/Ctip1 ASD mice: growth cone proteomes & RNA	\$150,000	2.1	President & Fellows of Harvard College
Simons Foundation	Delineating neural circuits underlying autism-like behaviors in mice	\$150,000	2.1	Massachusetts Institute of Technology
Simons Foundation	Developmental changes in a mouse model of UBE3A hyperactivation	\$150,000	2.1	Washington University in St. Louis
Simons Foundation	Exploring disruption of DNA methylation in autism spectrum disorders	\$150,000	2.1	Washington University in St. Louis
National Institutes of Health	Mapping Regulatory Networks of Autism Risk at Cellular Resolution during Neurodevelopment	\$154,085	2.1	Yale University
National Institutes of Health	The Influence of Visual Perceptual Salience on Word Processing and Word Learning in Young Children with Autism Spectrum Disorder	\$155,000	2.1	Michigan State University
National Institutes of Health	2/3 Integrative Genomic Analysis of Human Brain Development and Autism	\$155,817	2.1	University of California Los Angeles
Simons Foundation	Identifying convergent neural circuit impairments in autism.	\$156,644	2.1	Yale University
National Institutes of Health	Sensory Project in Infant/Toddler Siblings of Children with Autism (Project SPIS)	\$158,000	2.1	Vanderbilt University Medical Center
National Institutes of Health	Social Rhythmic Entrainment and Language Development in Autism Spectrum Disorders	\$158,000	2.1	Vanderbilt University Medical Center
Simons Foundation	Foxp1-regulated cell-type specific contributions to striatal development	\$161,276	2.1	UT Southwestern Medical Center



Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Multi-model platform for functionalizing ASD variants and drug testing	\$162,500	2.1	University of British Columbia
Simons Foundation	Epitranscriptomic regulation of ASD risk genes	\$162,500	2.1	The Trustees of the University of Pennsylvania
Simons Foundation	Molecular and functional characterization of sickness-sensitive circuits	\$162,500	2.1	President & Fellows of Harvard College
National Institutes of Health	The Relationship Between Language and the Brain in Neurodevelopmental Disorders	\$170,259	2.1	University of Wisconsin-Madison
National Institutes of Health	Tools for Manipulating Local Protein Synthesis in the Brain	\$172,800	2.1	University of Toronto
Simons Foundation	Disrupted GABAergic action in the autistic brain	\$173,900	2.1	Trustees of Dartmouth College
National Institutes of Health	Neural Correlates of Biological Motion Perception in Children with ASD	\$175,793	2.3	Seattle Children's Hospital
National Institutes of Health	Prefrontal Corticothalamic Circuits in Autism	\$178,646	2.1	University of Texas, Austin
Simons Foundation	A platform to identify circuit defects in autism model mice	\$179,244	2.1	California Institute of Technology
National Institutes of Health	Identifying the Role of Emotion Processes in Core Features of Autism Spectrum Disorder	\$182,345	2.1	Rutgers, The State Univ of N.J.
National Institutes of Health	Predicting Preschool Psychopathology with Brain Connectivity in Preterm Neonates	\$182,544	2.1	Washington University
National Institutes of Health	Genetic Models for Social Attachment Deficits in Psychiatric Illness	\$184,131	2.1	University of California, San Francisco
National Institutes of Health	Advancing Early Behavioral and Neural Phenotypes of Social Motivation in ASD	\$185,929	2.1	Washington University
National Institutes of Health	Developmental Synaptopathies Associated with TSC, PTEN and Shank3 Mutations	\$187,331	2.3	Boston Children's Hospital
National Institutes of Health	Visuomotor Integration and Attention in Autism Spectrum Disorder	\$188,447	2.1	University of North Texas Health Science Center
National Institutes of Health	Imaging Biomarkers of Social Cognition and Pharmacologic Target Engagement in ASD	\$188,969	2.1	Univ of Massachusetts Med Sch Worcester
National Institutes of Health	Epigenomic Dysregulation of Neurodevelopmental Genes Underlies Autism Spectrum Disorders	\$192,500	2.1	University of Hawaii at Manoa
National Institutes of Health	Otoacoustic Emissions and Auditory Feedback in Minimally Verbal Children with ASD	\$192,500	2.1	University of Rochester
National Institutes of Health	Personalized Treatment of Cognitive Deficits Associated with Deletion of CACNG2	\$193,750	2.1	University of California, San Diego
National Institutes of Health	Neonatal ABRs and Heritable Risk for ASD	\$193,750	2.1	Michigan State University
National Institutes of Health	Role of Attention in Balance and Mobility in Autism Spectrum Disorders	\$193,993	2.1	University of Pittsburgh at Pittsburgh

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Quantification of Predictive Motor Impairments in Individuals with ASD	\$194,383	2.1	Northeastern University
National Institutes of Health	Characterizing Mechanistic Heterogeneity across ADHD and Autism	\$194,969	2.1	Oregon Health & Science University
National Institutes of Health	Gabaergic Neurophysiology in Autism Spectrum Disorder	\$195,048	2.1	Stanford University
National Institutes of Health	Impact of Multisensory Function on Symptomatology in Young Children with ASD	\$195,916	2.3	San Diego State University
Simons Foundation	The role of the PTCHD1-antisense long noncoding RNA in Autism.	\$196,088	2.1	The Hospital for Sick Children
National Institutes of Health	Identifying Phenotypic Convergence Among Autism Spectrum Disorder (ASD) Genes Using CRISPR/Cas9 in Xenopus	\$196,250	2.1	University of California Berkeley
National Institutes of Health	Limbic Circuit Dysfunction in Offspring Following Maternal Immune Activation	\$198,076	2.1	Stanford University
Simons Foundation	Fever and the brain in autism: Temperature versus inflammatory effects	\$198,228	2.Core/Other	THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN
National Institutes of Health	Vocal Sensorimotor Control and Voice Abnormalities in Autism Spectrum Disorders	\$199,098	2.1	University of California, San Francisco
Simons Foundation	Pilot study to evaluate molecular changes in the brain of Chd8 mutant mice as a function of age	\$200,000	2.1	The University of North Carolina at Chapel Hill
National Institutes of Health	Deciphering High Function Autism Using Mice with Human De Novo ANK2 Mutations	\$200,000	2.1	Duke University
National Institutes of Health	Abnormal Prefrontal Network Structure Underlying Anxiety in Autism	\$200,178	2.1	University of California, San Francisco
National Institutes of Health	Mechanisms Underlying Sensory Over-Responsivity in ASD and Early Adversity	\$201,812	2.1	University of California Los Angeles
National Institutes of Health	Amino Acid Metabolism in Autism Spectrum Disorder	\$202,500	2.1	Ut Southwestern Medical Center
National Institutes of Health	Sensory Consequences of Action in Children with Autism Spectrum Disorders	\$205,798	2.1	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Familial Risk for ASD Alters Connectivity in Developing Brain	\$206,385	2.1	Yale University
National Institutes of Health	Familial risk for ASD alters connectivity in developing brain	\$206,385	2.1	Yale University
National Institutes of Health	Developmental Synaptopathies Associated with TSC, PTEN and Shank3 Mutations	\$206,943	2.3	Boston Children's Hospital
National Institutes of Health	Statistical Analysis Core	\$208,320	2.Core/Other	Yale University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Adult Neurogenesis and Executive Function	\$208,772	2.1	Albert Einstein College of Medicine
National Institutes of Health	Shank3 in Autism and Sleep Disturbances	\$208,774	2.2	Washington State University
National Institutes of Health	Genomics Core	\$210,815	2.Core/Other	University of California, San Diego
National Institutes of Health	Neurophysiological and Neuroanatomical Processes Related to Autism Spectrum Disorder in Neurofibromatosis Type 1	\$215,000	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Phase-Amplitude Coupling and Dysfunction in ASD	\$215,000	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Gastrointestinal Comorbidities in Autism Spectrum Disorders	\$217,735	2.2	University of Miami Coral Gables
National Institutes of Health	Structure and Function of Neonatal Social Communication in Genetic Mouse Models of Autism	\$219,473	2.1	Albert Einstein College of Medicine
National Institutes of Health	Functional Connectivity in Developmental Delay: Shared Etiology and Differential Outcomes	\$221,250	2.1	University of Oregon
Simons Foundation	Delineating neurodevelopmental causal paths to autism symptoms in infancy	\$224,902	2.3	Birkbeck College
National Institutes of Health	Understanding Attentional Strengths and Weaknesses in Autism Spectrum Disorder	\$226,857	2.1	Purdue University
National Institutes of Health	Mechanisms of Epilepsy in Human Neurodevelopmental Disorders: Focus on Phelan-McDermid Syndrome	\$228,500	2.2	University of Utah
National Institutes of Health	Interactions Between IgSF Proteins in Neural Circuit Formation	\$228,511	2.1	University of Chicago
National Institutes of Health	The Development of the Temporal Organization of Perception in Autism Spectrum Disorder	\$228,750	2.1	University of Massachusetts Boston
National Institutes of Health	Location-Dependent Signaling of MGLU5 in Models of Synaptic Plasticity Using CRISPR-Targeted Mice	\$228,750	2.1	Washington University
National Institutes of Health	Mapping Language Processing in Children with Autism Spectrum Disorder with Diffuse Optical Tomography	\$228,750	2.1	Washington University
National Institutes of Health	Visualization of Oxytocin Receptor for Translational Social Neuroscience	\$231,600	2.1	University of California at Davis
National Institutes of Health	Parent-Toddler EEG Neural Synchrony as a Window into Social Communication Deficits in Autism	\$232,646	2.1	Northwestern University
National Institutes of Health	Maternal Asthma and Brain Development	\$235,500	2.1	University of California at Davis
National Institutes of Health	Mosaic Analysis with Double Markers in the Study of Neuronal Migration Disorders	\$235,500	2.1	University of California at Davis

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Foxp2 Regulation of Sex Specific Transcriptional Pathways and Brain Development	\$237,932	2.CC	Virginia Polytechnic Inst and St Univ
National Institutes of Health	A Novel Paradigm to Dissect the Function Connectivity in Shank3 Autism Model	\$238,500	2.1	Duke University
Simons Foundation	Mechanistic studies of the interaction between Shank3 and CaMKIIa	\$240,000	2.1	The Hong Kong University of Science and Technology
Simons Foundation	Role of the Thalamic Reticular Nucleus in ASD	\$240,000	2.1	Massachusetts Institute of Technology
National Institutes of Health	Dysfunction of Distinct Amygdala Circuits in a 16p11.2 Model of Autism	\$240,000	2.1	Cold Spring Harbor Laboratory
National Institutes of Health	Shared and Distinct Developmental Pathways to ADHD and Autism Spectrum Disorder	\$247,094	2.2	University of California at Davis
National Institutes of Health	Mechanisms and Rescue of Neural Circuit Dysfunction in Mecp2 Mutant Mice	\$249,000	2.1	George Washington University
National Institutes of Health	Neuroimaging Genetics to Study Social Cognitive Deficits in ASD and Schizophrenia	\$249,000	2.1	Massachusetts General Hospital
National Institutes of Health	A Multimodal Investigation of Inhibitory Dysfunction in Autism Spectrum Disorder	\$249,000	2.1	Johns Hopkins University
National Institutes of Health	Molecular Mechanisms of Electrical Synapse Formation In Vivo	\$249,000	2.1	University of Oregon
National Institutes of Health	Role of Autism Susceptibility Gene, TAOK2 Kinase, and its Novel Substrates in Synaptogenesis	\$249,000	2.1	University of Washington
National Institutes of Health	Striatal Specific Alterations in Translation, Synaptic Function, and Behavior in	\$249,000	2.1	Columbia University Health Sciences
National Institutes of Health	In Vivo Ultra-High Field Anatomical Evidence of Cortical Abnormalities in ASD	\$249,259	2.1	Massachusetts General Hospital
National Institutes of Health	Social-Communicative Deficits in Autism Spectrum Disorder as Measured by mGluR5 Positron Emission Tomography	\$251,250	2.1	Yale University
National Institutes of Health	Mechanism-Targeted Treatment Strategy in PTEN-Associated Autism and Epilepsy	\$253,204	2.1	Cincinnati Children's Hospital Medical Center
National Institutes of Health	Early Development in Agenesis of the Corpus Callosum	\$262,280	2.1	California Institute of Technology
National Institutes of Health	MRI-based Biomarkers for Regional Brain Abnormalities in Autism Spectrum Disorder: From Newborns to Young Adults	\$265,500	2.3	Boston Children's Hospital
Simons Foundation	Cell-type-specific brain networks perturbed by genetics in autism	\$272,588	2.1	Broad Institute, Inc.
Simons Foundation	Network activity and translational regulation in SHANK2 ASD neurons	\$273,710	2.1	The Hospital for Sick Children

Funder	Project Title	Funding	Strategic Plan Objective	Institution
Simons Foundation	Effect of Autism risk genes in neural cell identity using single cell seq	\$275,000	2.1	Yale University
Simons Foundation	Mapping ASD regulatory networks at cellular resolution in neurodevelopment	\$275,000	2.1	Yale University
Simons Foundation	Chromatin mechanisms of gene repression in ASD and cortical development	\$275,000	2.1	The Regents of the University of California, San Francisco (Contracts & Grants)
Simons Foundation	BAF53b (Actl6b) in Autism and Neurodevelopmental Disorders	\$275,000	2.1	Stanford University
Simons Foundation	The influence of ASD-risk genes on synaptic function in the basal ganglia	\$275,000	2.1	The Regents of the University of California, Berkeley
Simons Foundation	The neuronal reprogramming factor and autism-associated gene Myt1l	\$275,000	2.1	Stanford University
Simons Foundation	Dissecting primary motor cortex circuit dysfunction in a mouse model of MeCP2 duplication syndrome	\$275,000	2.1	Brigham and Women's Hospital
Simons Foundation	Biased spatiotemporal dynamics of striatal circuits impact behavior in ASD	\$275,000	2.1	Columbia University Medical Center
National Institutes of Health	Genetic Modifiers of Seizure Disorders in Fragile X Syndrome	\$275,509	2.2	Emory University
Simons Foundation	Advancing a monkey model of social impairment	\$278,400	2.1	The Board of Trustees of the Leland Stanford Junior University (Stanford)
National Institutes of Health	Neurobehavioral Research on Infants at Risk for Language Delay and ASD	\$284,724	2.1	Boston University (Charles River Campus)
National Institutes of Health	MEG Studies of Auditory Processing in Minimally/Non-Verbal Children with ASD and Intellectual Disability	\$295,506	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Mechanistic Transitions that Shape Typical and Atypical Social Visual Engagement	\$296,345	2.1	Emory University
National Institutes of Health	Parsing ASD Heterogeneity: Neuroendophenotypes of Social Attention and Sensory Responsivity	\$298,312	2.1	University of California Los Angeles
National Institutes of Health	Developmental Synaptopaties Associated with TSC, PTEN and Shank3 Mutations	\$300,414	2.3	Boston Children's Hospital
National Institutes of Health	Age-Dependent Dysfunction of GABAergic Neurotransmission Due to Autism-Associated mTOR Pathway Activation	\$305,924	2.CC	University of Virginia
National Institutes of Health	Social Processes Initiative in Neurobiology of Autism-spectrum and Schizophrenia-spectrum Disorders (SPIN-ASD)	\$307,587	2.1	Centre For Addiction and Mental Health
National Institutes of Health	Sex-Specific Modulation of ASD Liability: Compensatory Mechanisms and Recurrence	\$307,603	2.CC	Washington University
National Institutes of Health	Neurogenetic Mechanisms of Sensory Circuit Plasticity	\$308,000	2.CC	University of Rochester

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Statistical Methods for Ultrahigh-Dimensional Biomedical Data	\$308,503	2.Core/Other	Princeton University
National Institutes of Health	Developmental Synaptopaties Associated with TSC, PTEN and Shank3 Mutations	\$315,899	2.3	Boston Children's Hospital
National Institutes of Health	Language Processing and Word Learning in Preschoolers with Autism Spectrum Disorder	\$317,000	2.1	Boston University (Charles River Campus)
National Institutes of Health	Prenatal Origins of Neurometabolic Consequences	\$319,550	2.1	University of California Los Angeles
National Institutes of Health	Emergence and Stability of Autism in Fragile X Syndrome	\$320,813	2.3	University of South Carolina at Columbia
National Institutes of Health	Estrogen Receptor (ER)-Mediated Repression of Prenatal Inflammation in Fetal Microglia and its Impact on Autism	\$325,775	2.CC	University of California Berkeley
National Institutes of Health	Immune Regulation and Gastrointestinal Co-Morbidity in Autism Spectrum Disorders	\$325,775	2.2	University of California at Davis
National Institutes of Health	Electrophysiological Signatures of Language Impairment in Autism Spectrum Disorder	\$326,316	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Cerebellum and Mental Disorders	\$326,512	2.1	Albert Einstein College of Medicine
National Institutes of Health	L1CAM Adhesion and Signaling Pathways in C. Elegans	\$327,597	2.1	University of Minnesota
National Institutes of Health	Spastic Paraplegia, Neurodegeneration and Autism: Possible Role for AT-1/SLC33A1?	\$330,978	2.1	University of Wisconsin-Madison
National Institutes of Health	Robust 1H MRSI of GABA, Glutamate, Glutamine, and Glutathione	\$334,606	2.1	Stanford University
National Institutes of Health	Molecular Mechanism of Hippocampal Network Excitability in a Novel, In Vivo Model of Tuberous Sclerosis Complex	\$335,999	2.2	Wake Forest University Health Sciences
National Institutes of Health	Genetics and Biomarkers Core	\$338,813	2.1	University of California Los Angeles
National Institutes of Health	Role of 14-3-3Epsilon in Neurite Initiation	\$340,161	2.1	Drexel University
National Institutes of Health	Phenotypic Characterization of Novel Models of Dup15q Syndrome	\$343,438	2.1	University of California at Davis
National Institutes of Health	Research Project: Sensory and Multisensory Contributions to Autism	\$347,769	2.1	Vanderbilt University Medical Center
National Institutes of Health	Compressive Genomics for Large Omics Data Sets: Algorithms, Applications and Tools	\$350,181	2.Core/Other	Massachusetts Institute of Technology
National Institutes of Health	Role of Brg1 in Activity-Induced Neuronal Gene Expression and Synaptic Plasticity	\$352,407	2.1	Ut Southwestern Medical Center
Simons Foundation	Understanding Somatosensation Deficits in Autism Spectrum Disorder	\$352,500	2.1	Harvard Medical School

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Pathways of Social Contingency for Navigating Developmental Landscapes of Risk in ASD: Developmental Progressions and Pivotal Transitions in Infant-Caregiver Vocal Interaction	\$354,043	2.1	Emory University
National Institutes of Health	Examining the Function of Biological Sex Specific Genes: The NLGN4s	\$354,062	2.CC	Thomas Jefferson University
National Institutes of Health	3/3 Chromatin Regulation During Brain Development and in ASD	\$355,941	2.1	Duke University
National Institutes of Health	Rapid Inhibitory Circuit Plasticity as a Homeostatic Mechanism in Cerebral Cortex	\$358,730	2.1	University of California Berkeley
National Institutes of Health	Quantitative 3D Imaging of In Situ Nanoparticle Movement and Cellular Behavior During Neuroinflammation	\$361,909	2.Core/Other	University of Washington
National Institutes of Health	Neonatal Connectome as a Predictor of Social and Attentional Impairment in ASD	\$366,262	2.1	Yale University
National Institutes of Health	Neonatal connectome as a predictor of social and attentional impairment in ASD	\$366,262	2.1	Yale University
National Institutes of Health	Functional Analysis of Neuroligin-Neurexin Interactions in Synaptic Transmission	\$366,406	2.1	Univ of Massachusetts Med Sch Worcester
National Institutes of Health	Cerebellum and Mental Disorders	\$366,432	2.1	Albert Einstein College of Medicine
National Institutes of Health	Mechanisms of Circuit Failure and Treatments in Patient-Derived Neurons in Autism	\$369,162	2.1	Brown University
National Institutes of Health	Neural Mechanisms of Predictive Impairments in Autism	\$373,253	2.1	Purdue University
National Institutes of Health	Transcriptional Regulation of Synapse Development in Intellectual and Developmental Disorders	\$373,750	2.1	Medical University of South Carolina
National Institutes of Health	Maternal Immune Activation in a Genetic Mouse Model of ASD	\$375,318	2.1	University of Nebraska Medical Center
National Institutes of Health	Synaptotagmin C2B Domain as a Ca2+ Sensing Module	\$376,140	2.1	University of Wisconsin-Madison
National Institutes of Health	Functional Connectomics Associated with ASD	\$376,587	2.CC	Yale University
National Institutes of Health	Functional connectomics associated with ASD	\$376,587	2.1	Yale University
National Institutes of Health	Environmental Toxins and Microglia-Synapse Interactions in Autism	\$377,509	2.1	Massachusetts General Hospital
National Institutes of Health	Development and Afferent Regulation of Auditory Neurons	\$380,000	2.1	Florida State University
National Institutes of Health	Cellular and Molecular Mechanisms Disrupted in 22q13 Deletion Syndrome and Autism	\$380,626	2.1	University of Utah

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Beyond Diagnostic Classification of Autism: Neuroanatomical, Functional, and Behavioral Phenotypes	\$381,250	2.1	University of Utah
National Institutes of Health	Cdh8-Dependent Circuit Development in Autism	\$381,375	2.1	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Optical Imaging Tools for Elucidating the Roles of Anions and Anionic Modifications in Cellular Signaling	\$382,500	2.1	University of Texas Dallas
National Institutes of Health	Chandellier Interneurons and the Excitation/Inhibition Balance in the Human Prefrontal Cortex in Autism	\$383,400	2.1	University of California at Davis
National Institutes of Health	MET Receptor Tyrosine Kinase and the Development of Forebrain Circuits	\$383,750	2.1	University of Arizona
National Institutes of Health	Pivotal Transitions in Early Infancy that Shape Network Development of the Social Brain	\$386,089	2.1	Emory University
National Institutes of Health	Glutamatergic Synapse Formation and Function	\$387,500	2.1	University of California, San Diego
National Institutes of Health	Mechanisms of Developmental Spine Pruning Regulated by IgCAMs and Semaphorins	\$388,750	2.1	Univ of North Carolina Chapel Hill
National Institutes of Health	Typical and Pathological Cellular Development of the Human Amygdala	\$392,500	2.1	University of California at Davis
National Institutes of Health	Neural Networks for Attention to Internal and External Sensory Cues in ASD	\$394,652	2.1	Vanderbilt University Medical Center
National Institutes of Health	Neurobiological Signatures of Perception of Audiovisual Speech in Children with Autism Spectrum Disorders	\$394,859	2.1	Southern Connecticut State University
National Institutes of Health	The Neural Architecture of Pragmatic Processing	\$397,500	2.1	Massachusetts Institute of Technology
National Institutes of Health	Hippocampal Mechanisms in Observational Learning	\$397,754	2.1	Baylor College of Medicine
National Institutes of Health	Regulation of Experience-Dependent Cortical Circuit Development by MEF2C and Genes Linked to Neurodevelopmental Disorders	\$399,770	2.1	Ut Southwestern Medical Center
National Institutes of Health	Development of a Selective Metabotropic Glutamate Receptor 7 Allosteric Modulator Probe	\$400,356	2.1	Vanderbilt University
National Institutes of Health	Autonomic Activity and Relations with Social Development in Infants at Low and High Risk for Autism Spectrum Disorder	\$400,495	2.3	College of Staten Island
National Institutes of Health	Simultaneous Multiplexed In Situ Fluorescence Imaging of Neuronal Proteins and Messenger RNAs	\$400,900	2.1	Massachusetts Institute of Technology



Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Investigating the Mechanism of Optic Nerve Hypoplasia Associated with CASK Mutation	\$402,500	2.2	Virginia Polytechnic Inst and St Univ
National Institutes of Health	The Role of Foxp1-Regulated Signaling Pathways in Brain Development and Behavior	\$405,000	2.1	Ut Southwestern Medical Center
National Institutes of Health	Neural Function of the Human Memory-Associated Protein KIBRA: Bridging Molecular to Circuit-Level Function	\$405,000	2.1	Ut Southwestern Medical Center
National Institutes of Health	Mechanisms of Circuit Failure and Treatments in Patient-Derived Neurons in Autism	\$406,250	2.1	Brown University
National Institutes of Health	Autism-Linked Endosomal Mechanisms in Neuronal Arborization and Connectivity	\$406,250	2.1	Brown University
National Institutes of Health	Effects of Social Gaze Training on Brain and Behavior in Fragile X Syndrome	\$406,696	2.1	Stanford University
National Institutes of Health	Role of Somatic Mosaicism in Autism, Schizophrenia, and Bipolar Disorder Brain	\$408,398	2.1	Hugo W. Moser Research Institute at Kennedy Krieger, Inc.
National Institutes of Health	Scalable Technologies for Genome Engineering in hPSCS	\$408,610	2.1	University of California, San Diego
National Institutes of Health	AMPA Receptor Trafficking Regulates Social Behaviors in Autism	\$408,750	2.1	Johns Hopkins University
National Institutes of Health	Organization of Excitatory and Inhibitory Circuits in ASD	\$409,250	2.1	Boston University (Charles River Campus)
National Institutes of Health	Cycles of Social Contingency: Pivotal Transitions that Shape Brain-Behavior Development in Monkeys	\$414,080	2.1	Emory University
National Institutes of Health	Signaling Mechanisms Underlying Epilepsy and Autism Comorbidity	\$415,500	2.2	Baylor College of Medicine
National Institutes of Health	Role of Histone Ubiquitination in Neurodevelopment and Disease	\$415,708	2.1	University of Michigan at Ann Arbor
National Institutes of Health	Role of Gabaergic Interneurons in Developmental Dysregulation of Cortical Function	\$418,311	2.1	Yale University
National Institutes of Health	High-Throughput Functional Analysis of Autism Risk Genes	\$418,750	2.1	Yale University
National Institutes of Health	Neurodevelopmental Phenotypes in MLL Mutant Mice	\$419,004	2.1	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Clinical Characterization Core	\$421,107	2.Core/Other	Yale University
National Institutes of Health	Neuronal Adaptation and Plasticity after Chronic Disuse	\$423,750	2.1	New York University School of Medicine
National Institutes of Health	Heparan Sulfate in Neurophysiology and Neurological Disorders	\$425,231	2.1	Sanford Burnham Prebys Medical Discovery Institute

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Loss and Rescue of Endocannabinoid-Dependent LTP and Memory in Fragile-X Model Mice	\$426,656	2.1	University of California-Irvine
National Institutes of Health	Imaging Adaptive Cerebellar Processing at Cellular Resolution in Awake Mice	\$428,215	2.1	Princeton University
National Institutes of Health	Brainstem Contributions to Sensorimotor and Core Symptoms in Children with Autism Spectrum Disorder	\$429,873	2.1	University of Wisconsin-Madison
National Institutes of Health	The Neurobiological Basis of Heterogeneous Social and Motor Deficits in ASD	\$430,837	2.1	University of Southern California
National Institutes of Health	Neurobiology of Aggression Comorbidity in Autism	\$432,500	2.2	Beth Israel Deaconess Medical Center
National Institutes of Health	Creation and Evaluation of iPSCs from Children with ASD with Megalencephaly	\$436,429	2.2	University of California at Davis
National Institutes of Health	Robust Trans-synaptic Labeling Technologies for Cell Type-specific Quantitation of Synaptic Connectivity	\$437,452	2.Core/Other	University of California, San Diego
National Institutes of Health	Role of Autism-Linked Genes in Developmental Refinement of the Corpus Callosum	\$437,500	2.1	Children's Research Institute, Children's National Medical Center
National Institutes of Health	VTA VGlut2 Sociability Circuit in Genetic Autism	\$437,500	2.1	Beth Israel Deaconess Medical Center
National Institutes of Health	Cortical Plasticity in Autism Spectrum Disorders	\$437,682	2.1	Beth Israel Deaconess Medical Center
National Institutes of Health	Cognitive and Neural Flexibility in Autism	\$445,328	2.1	University of Miami Coral Gables
National Institutes of Health	Defining the Molecular Mechanisms of Sex Differences in Cognitive Function	\$446,742	2.CC	George Washington University
National Institutes of Health	Binding of synGAP to PDZ Domains of PSD-95 and its Role in Intellectual Disability and Autism Spectrum Disorders Caused by synGAP Haploinsufficiency	\$449,405	2.1	California Institute of Technology
National Institutes of Health	The Impact of PTEN Signaling on Neuronal Form and Function	\$450,559	2.1	Dartmouth College
National Institutes of Health	Biological Substrates of Risk and Resilience Using Patient-Derived Stem Cells	\$450,612	2.1	Yale University
National Institutes of Health	Biological substrates of risk and resilience using patient-derived stem cells	\$450,612	2.1	Yale University
National Institutes of Health	Role of DYRK1A/MNB in Synaptic Growth and Function	\$453,361	2.1	University of Southern California
National Institutes of Health	Genetics of Conotruncal Defects and Associated Neurodevelopmental Outcomes	\$453,446	2.2	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Cellular and Molecular Analysis of the Schizophrenia and Autism Spectrum Disorder Gene Transcription Factor 4 (TCF4)	\$456,500	2.1	Lieber Institute, Inc.

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Cortical Spread of Hippocampal Hyperactivity in Rett Syndrome	\$457,549	2.1	University of Alabama at Birmingham
National Institutes of Health	Neural Signatures, Developmental Precursors, and Outcomes in Young Children with ASD and ADHD	\$466,171	2.2	Duke University
National Institutes of Health	Behavioral and Neurobiological Phenotyping of ASD with Megalencephaly	\$467,981	2.2	University of California at Davis
National Institutes of Health	Molecular Causes of Cognitive and Autistic Disabilities	\$468,897	2.1	Tufts University Boston
National Institutes of Health	Motor Abnormalities and Functional Brain Mechanisms in Autism Spectrum Disorder	\$470,911	2.1	University of Kansas Lawrence
National Institutes of Health	Motor abnormalities and functional brain mechanisms in autism spectrum disorder	\$470,911	2.1	University of Kansas Lawrence
National Institutes of Health	Chromosomal Boundary Alterations Driving Transcriptional Dysregulation in Brain Disorders	\$471,600	2.1	University of California, San Diego
National Institutes of Health	Optimizing Prediction of Social Deficits in Autism Spectrum Disorders	\$474,470	2.1	State University of New York, Stony Brook
National Institutes of Health	2/2 - Cell Type and Region-Specific Regulatory Networks in Human Brain Development and Disorders	\$474,606	2.1	University of California, San Francisco
National Institutes of Health	Somatosensory Inhibitory Dysfunction in Autism Spectrum Disorder	\$479,262	2.1	Johns Hopkins University
National Institutes of Health	Regulation of mTOR Signaling in the Developing Cerebral Cortex as a Point of Convergence for Multiple Autism Risk Factors	\$480,000	2.1	Scripps Florida
National Institutes of Health	Dissecting Neural Mechanisms Integrating Multiple Inputs in C.Elegans	\$481,000	2.1	Salk Institute For Biological Studies
National Institutes of Health	The Effects of Parenting on the Development and Behavior of Adolescents with FXS	\$482,839	2.3	University of Kansas Lawrence
National Institutes of Health	Examining Stress and Arousal Across Pubertal Development in ASD	\$488,319	2.2	Vanderbilt University Medical Center
National Institutes of Health	Project 3 Arlotta	\$490,100	2.1	Harvard University
National Institutes of Health	Characterization of a Novel Population of Parvocellular Oxytocin Neurons Controlling Social Reward Learning	\$491,250	2.1	Johns Hopkins University
National Institutes of Health	Gaining Insight into Psychiatric Disease by Engineering Piece by Piece the Human Brain In Vitro.	\$491,734	2.1	Stanford University
National Institutes of Health	Thalamocortical Circuit Defects in Developmental Brain Disorders	\$497,444	2.1	University of Maryland Baltimore
National Institutes of Health	Eyeblink Conditioning in School-Aged Children with ASD	\$497,699	2.1	Seattle Children's Hospital

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Characterizing Patient-specific TBR1 Mutations: Understanding a Master Regulator of Autism Risk	\$499,244	2.1	Oregon Health & Science University
National Institutes of Health	Predictors of Cognitive Development in Autism Spectrum Disorder	\$504,752	2.3	University of California at Davis
National Institutes of Health	Regulation of Mammalian Social Behavior by the Gtf2i Family of Proteins	\$504,828	2.1	Washington University
National Institutes of Health	Bidirectional Tyrosine Kinase Signaling	\$506,652	2.1	Ut Southwestern Medical Center
National Institutes of Health	Elucidating Neural Substrates that Mediate Autism-Like Behaviors	\$514,379	2.1	Massachusetts Institute of Technology
National Institutes of Health	Infant Vocal Communication: Typical Development and Autism Risk	\$517,111	2.3	University of Memphis
National Institutes of Health	Disrupted Auditory Cortical Plasticity and Behavior in a Model of Rett Syndrome	\$518,964	2.1	Cold Spring Harbor Laboratory
National Institutes of Health	Evaluating the Effect of Splicing Mutations on Isoform Networks in Autism	\$519,794	2.1	University of California, San Diego
National Institutes of Health	Multimodal Imaging of Early Neural Signature in Autism Spectrum Disorder	\$519,969	2.3	San Diego State University
National Institutes of Health	Investigating the Synaptic Pathology of Autism	\$521,823	2.1	Seattle Children's Hospital
National Institutes of Health	High Content Assays for Cellular and Synaptic Phenotypes	\$523,284	2.Core/Other	University of California, San Diego
National Institutes of Health	A Novel Framework for Impaired Imitation in ASD	\$529,137	2.1	Hugo W. Moser Research Institute at Kennedy Krieger, Inc.
National Institutes of Health	Synaptic Pathophysiology of the 16p11.2 Microdeletion Mouse Model	\$531,026	2.2	Massachusetts Institute of Technology
National Institutes of Health	Brain Network Dynamics Contributing to Atypical Social Interaction in Autism	\$531,761	2.1	Univ of Maryland, College Park
National Institutes of Health	Characterizing Lexical Processing in Toddlers with Autism Spectrum Disorders	\$533,529	2.1	University of Wisconsin-Madison
National Institutes of Health	The Extraordinary Babies Study: Natural History of Health and Neurodevelopment in Infants and Young Children with Sex Chromosome Trisomy	\$534,473	2.3	University of Colorado Denver
National Institutes of Health	Using Complex Video Stimuli to Elucidate Atypical Brain Functioning in ASD	\$546,067	2.1	Indiana University Bloomington
National Institutes of Health	Neuronal Activity-Dependent Regulation of MeCP2	\$547,924	2.1	Harvard Medical School
National Institutes of Health	1/3 Chromatin Regulation During Brain Development and in ASD	\$550,583	2.1	Yale University
National Institutes of Health	Dendrite Morphogenesis, Function and Regeneration	\$554,750	2.1	University of California, San Francisco

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Reproducible Protocols for Robust Cortical Neuron and Astroglial Differentiation	\$554,873	2.Core/Other	University of California, San Diego
National Institutes of Health	Prenatal Environmental Toxicants Induce Neuroinflammation Causing Autistic Behaviors	\$556,953	2.1	Wadsworth Center
National Institutes of Health	Inhibitory Dysfunction in Autism	\$559,741	2.1	University of Washington
National Institutes of Health	Genetic Regulation of Variability in Brain Oxytocin Receptors	\$569,017	2.1	Emory University
National Institutes of Health	Neurodevelopment of Cognitive Control in Autism: Adolescence to Young Adulthood	\$569,900	2.3	University of California at Davis
National Institutes of Health	Modeling ASD-Linked Genetic Mutations in 3D Human Brain Organoids	\$571,066	2.1	Harvard University
National Institutes of Health	Charting the Trajectory of Executive Control in Autism in order to Optimize Delivery of Intervention	\$572,970	2.1	Boston Children's Hospital
National Institutes of Health	Neural Phenotypes of Females with Autism Spectrum Disorder	\$575,769	2.CC	University of California at Davis
National Institutes of Health	Integrity and Dynamic Processing Efficiency of Networks in ASD	\$577,255	2.1	San Diego State University
National Institutes of Health	Dissecting Recurrent Microdeletion Syndromes Using Dual-Guide Genome Editing	\$580,798	2.1	Massachusetts General Hospital
National Institutes of Health	Neurobiology of Autism with Macrocephaly	\$584,101	2.1	Yale University
National Institutes of Health	Mechanotransduction C. Elegans	\$588,908	2.1	Massachusetts General Hospital
National Institutes of Health	Function and Structure Adaptations in Forebrain Development	\$590,225	2.1	Children's Hospital of Los Angeles
National Institutes of Health	Development and Neural Mechanisms of Repetitive Behavior and Sensory Responsivity in Autism	\$604,280	2.3	University of Minnesota
National Institutes of Health	A Mitochondrial-Interneuronal Hypothesis of Autism	\$605,969	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Longitudinal Investigation of Social-Communication and Attention Processes in School-Aged Children at Genetic Risk for Autism	\$607,458	2.3	University of California at Davis
National Institutes of Health	Proteogenetics of Autism Spectrum Disorders	\$608,199	2.1	Scripps Research Institute
National Institutes of Health	A Family-Genetic Study of Language in Autism	\$609,022	2.1	Northwestern University
National Institutes of Health	Emergence and Stability of Autism in Fragile X Syndrome	\$612,127	2.3	University of South Carolina at Columbia
National Institutes of Health	Emergence, Stability and Predictors of Anxiety in Fragile X Syndrome	\$613,689	2.2	University of South Carolina at Columbia

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Induced Neuronal Cells: A Novel Tool to Study Neuropsychiatric Diseases	\$615,259	2.1	Stanford University
National Institutes of Health	Molecular and Neural Networks Underlying Social Attachment	\$615,653	2.1	STANFORD UNIVERSITY
National Institutes of Health	The Preterm Behavioral Phenotype: Trajectories of Psychopathology & Changes in Cerebral Connectivity	\$622,284	2.3	Washington University
National Institutes of Health	Neurotrophic Factor Regulation of Gene Expression	\$623,443	2.1	Harvard Medical School
National Institutes of Health	Understanding the Biology of Language Impairment through Whole Genome Sequencing	\$629,574	2.1	University of Iowa
National Institutes of Health	Multiscale Genetic Connectivity of Primate Social Circuits	\$636,124	2.1	University of Utah
National Institutes of Health	Engrailed Genes and Cerebellum Morphology, Spatial Gene Expression and Circuitry	\$639,375	2.1	Sloan-Kettering Inst Can Research
National Institutes of Health	Neural Mechanisms for Social Interactions and Eye Contact in ASD	\$642,068	2.1	Yale University
National Institutes of Health	A Longitudinal Study of Brain Development in Children with Autism	\$642,364	2.1	Children's Hospital of Philadelphia
National Institutes of Health	Electrophysiological Markers for Interventions in Phelan-McDermid Syndrome and Idiopathic Autism	\$648,380	2.1	Icahn School of Medicine at Mount Sinai
National Institutes of Health	Neurophenotypic Trajectories and Behavioral Outcomes in Autism Spectrum Disorder	\$649,081	2.3	University of California at Davis
National Institutes of Health	Language Development in Fragile X Syndrome	\$662,027	2.1	University of California at Davis
National Institutes of Health	Environmental Influence on Infant Microbiome Development and ASD Symptoms	\$671,599	2.Core/Other	University of California at Davis
National Institutes of Health	Neuronal Correlates of Autistic Traits in ADHD and Autism	\$696,598	2.1	Child Mind Institute, Inc.
National Institutes of Health	Neurobehavioral Research on Infants at Risk for Language Delay and ASD	\$701,720	2.3	Boston University (Charles River Campus)
National Institutes of Health	Neural Signatures of Outcome in Preschoolers with Autism	\$717,394	2.3	Child Mind Institute, Inc.
National Institutes of Health	Learning and Brain Plasticity in Children with Autism: Relation to Cognitive Inflexibility and Restricted-Repetitive Behaviors	\$724,432	2.1	Stanford University
National Institutes of Health	A Conserved Transcriptional Cascade Involved in Brain Overgrowth, Social Behavior and Autism	\$733,979	2.1	Case Western Reserve University

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	Therapeutic Potential and Mechanisms of Tau Reduction in Autism Models	\$750,148	2.1	J. David Gladstone Institutes
National Institutes of Health	Atypical Late Neurodevelopment in Autism: A Longitudinal Clinical Phenotype and Multimodal Brain Imaging Study	\$760,319	2.3	University of Wisconsin-Madison
National Institutes of Health	Optimal Outcomes in ASD: Adult Functioning, Predictors, and Mechanisms	\$766,991	2.3	University of Connecticut Storrs
National Science Foundation	CRCNS Research Proposal: Collaborative Research: Discovering Network Structure in the Space of Group-Level Functional Differences	\$776,050	2.1	Johns Hopkins University
National Institutes of Health	Attentional, Temperamental, and Physiological Process Underlying Anxiety in Preschoolers with ASD	\$776,151	2.2	Yale University
National Institutes of Health	Cross Modal Integration of Molecular and Physiological Networks in ASD (2/2)	\$804,886	2.1	Stanford University
National Institutes of Health	2/2 Somatic Mosaicism and Autism Spectrum Disorder	\$813,509	2.1	Yale University
National Institutes of Health	Elucidating Cutaneous Mechanosensory Circuits, from Development to Disease	\$831,501	2.1	Harvard Medical School
National Institutes of Health	Single-Cell Approaches to Deconvolution of Disease-Associated Signals	\$837,955	2.Core/Other	University of California, San Diego
National Institutes of Health	Testing the Bottom-Up vs Top-Down Imbalance Hypothesis of ASD	\$841,853	2.1	Massachusetts General Hospital
National Institutes of Health	Circuit-level substrates of ASD-related cognitive and behavioral impairments	\$860,721	2.1	Scripps Florida
National Institutes of Health	Parsing ASD Heterogeneity: Neuroendophenotypes of Social Attention and Sensory Responsivity	\$860,901	2.1	University of California Los Angeles
National Institutes of Health	Neurodevelopmental and Behavioral Phenotyping	\$868,283	2.1	National Institute of Health - Intramural
National Institutes of Health	The Cognitive Neuroscience of Autism Spectrum Disorders	\$907,757	2.1	National Institute of Health - Intramural
National Institutes of Health	Cerebellar Determinants of Flexible and Social Behavior on Rapid Time Scales in Autism Model Mice	\$946,977	2.1	Princeton University
National Institutes of Health	Dynamic RNA Modifications in Human Brain Development and Autism	\$953,067	2.1	Emory University
National Institutes of Health	Mosaicism in Focal Cortical Dysplasias Spectrum Seen in Neuropsychiatric Disease	\$967,385	2.2	University of California, San Diego
National Institutes of Health	1/2 Cross Modal Integration of Molecular and Physiological Networks in ASD	\$1,083,373	2.1	University of California Los Angeles
National Institutes of Health	Homeostatic Stabilization of Neural Function in Health and Disease	\$1,174,199	2.1	University of California, San Francisco

Funder	Project Title	Funding	Strategic Plan Objective	Institution
National Institutes of Health	1/2 Cell Type and Region-Specific Regulatory Networks in Human Brain Development and Disorders	\$1,238,066	2.1	Yale University
National Institutes of Health	Functional Genomics of Human Brain Development	\$1,297,265	2.1	Yale University
National Institutes of Health	Regulation of Neuroligins and Effects on Synapse Number and Function	\$1,309,907	2.1	National Institute of Health - Intramural
National Institutes of Health	Sleep and Neurodevelopment Service	\$1,371,686	2.2	National Institute of Health - Intramural
National Institutes of Health	Dysregulation of Protein Synthesis in Fragile X Syndrome and Other Developmental Disorders	\$1,582,883	2.2	National Institute of Health - Intramural
National Institutes of Health	Axonal Transport Regulates Synaptic Function and Axonal Homeostasis	\$1,732,619	2.1	NIH Intramural Program
National Institutes of Health	1/2 - Somatic Mosaicism and Autism Spectrum Disorder	\$1,777,812	2.1	Boston Children's Hospital
National Institutes of Health	Roles of Oxytocin and Vasopressin in Brain	\$1,986,027	2.1	National Institute of Health - Intramural
National Institutes of Health	Brain and Behavior Study of Autism from Infancy Through School Age	\$2,212,492	2.3	Univ of North Carolina Chapel Hill
National Institutes of Health	A Longitudinal MRI Study Characterizing Very Early Brain Development in Infants with Down Syndrome	\$2,297,205	2.1	Washington University
National Institutes of Health	Multimodal Developmental Neurogenetics of Females with ASD	\$2,338,691	2.1	University of Virginia
National Institutes of Health	Collaboration on preclinical autism cellular assays, biosignatures, and network analyses	\$3,221,756	2.1	University of California, San Diego
National Institutes of Health	The Psychiatric Cell Map Initiative: Connecting Genomics, Subcellular Networks, and Higher Order Phenotypes	\$3,641,916	2.1	University of California, San Francisco
National Institutes of Health	Environmental Influences on Neurodevelopmental Outcome in Infants Born Very Preterm	\$3,924,809	2.3	Women and Infants Hospital-Rhode Island
National Institutes of Health	Pre-adolescent and Late-adolescent Follow-up of the CHARGE Study Children	\$4,522,143	2.3	University of California at Davis
Simons Foundation	A major programme of fundamental and clinical autism research	\$5,319,931	2.1	University of Edinburgh



